SS-Zinc Phosphate

Zinc Phosphate Coating

TCJ-100 is a "LO-TEMP" heavy coating zinc phosphate compound used for applying corrosion inhibiting and lube coatings to steel in immersion tanks. Operates at 155 F. Up to 75% less sludging.

TCJ-100 is an immersion type product which provides coatings of 2,000+ mg/ft squared. Coatings are applied over steel and subsequently coated with a corrosion inhibiting emulsion type oil, wax or lubricant.

TCJ-100 provides a dark coating which resists up to 250 hours corrosion resistance in salt spray testing conditions. Premium quality performance. Does not contain EDTA type products. Meeting various industry specifications.

Features & Benefits

Lo-temperature processing:

- Providing significant energy heating costs savings.
- Ultra-low sludging for lowest cost & downtime.
- Extended bath life by 3-5 times lowering cost.
- Resistance to iron related problems. Up to 20 points iron.
- Provides dark dense coatings.
- Provides improved corrosion resistance and bonding.
- Eliminates "excess" heat related sludge on coils.
- Effectively coats resistant alloys lube applications.

Physical Data

pH	1
Product Type	Liquid
Spec. Gravity	1.615
lbs./gal.	13.47
Foam, 0 = Low, 9 = High	0
Shelf-Life Years	10 years
Freeze Information	

Typical Processing

1. Pre-clean, Alkaline #LS-150, 8% B.V, 8 min., 170 F.
2. Rinse (Or Alkaline Descaler #345 LR) (as required by process spec).
3. Acid pickle, (Hydrochloric or Sulfuric) 8 min.
4. Rinse.
5. Preferred rinse.
6. TCJ-100 Zinc, 140-180 F., 8-15 Min, 32+ points acid (re:5%) Iron up to 20.
7. Rinse
8. Oil option: 10-20% by volume #240 or #260, 125 F., 30-60 seconds.
9. Dry to touch “pre-paint option” #2018, 1-4%, 125 F. 30-60 seconds.
10. Lubrication option: Polymer, Loc-Lube #5, 8 oz./gal., 175 F., 4-10 min.

Packaging

Container Type	Poly
Net Units	733
Tare Wt.	25 lb.
Gross Wt.	758
DOT_Name	UN 3264, Corrosive Liquid, Acidic, inorganic, N.O.S., (Phosphoric & Nitric Acids), 8, PG II.
DOT Hazard	Corrosive
Tarriff ID	2835.29

Use Parameters

Concentration Range	4-6% 35-95 points total acid
Temperature Range	145-185 F.
Time Range	8-20 minutes
Agitation	n/a

Waste Disposal

Treat for pH, metals, etc.

Holding Tank Materials of Construction

Acid resistant, stainless, or poly

Other Information

It is important that the OSHA DATA, "Material Safety Data Sheet" be carefully read and reviewed with the users of this product. OSHA data is required to be posted in the work area by law.

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